

Weekly report

1 Done.

1.1 Bitcoin

Learn about decentralization.

The concept can be summarized based on both transaction features and graphic features.

Transaction features:

- The amount of each account
- Transaction frequency
- The amount of each transaction

...

Graphic features:

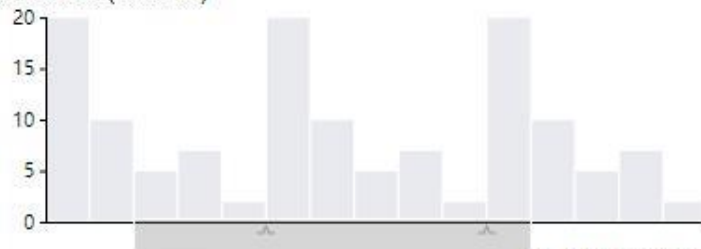
- Degree
- Betweenness centralization
- Closeness centralization

...

1.2 Graph Privacy

Interaction implement: brushing and displaying statistics.

Amount (232/46)



Amount (102/46)

(3~21) Degree



Amount (324/46)

(0.5~1) Betweenness



(0~0.5) Closeness

Sub-pipeline definition: identify options; identify the best option.

To do lists:

- Interface:
 - 1) Sub-pipeline
 - 2) History view: overview (CDE or KDE) -> zoom in-> node-link
 - 3) Subgraph view
- Algorithm:
 - 1) Compare CDE with KDE to choose the one more appropriate to display graph features.
- Backend:
 - 1) Subgraph recommendation
 - 2) Subgraph identification (fault-tolerant)
 - 3) Speed improvement

1.3 Geo privacy

Now we have 22 results. I input the result.

2 Progress

Item	Deadline	Current progress	Remark
Geo-privacy	-	Collect result.	-
Graph privacy	1.31	Programming.	-
RelationLine	12.14	Submitted.	
Bitcoin	-	Survey.	-